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GAINS 'PHENOMENAL'

.S. Looks to Soviet Way. Race for More Scientists

By ALLEN SHOENFIELD Staff Correspondent of The Detroit News nomenal."

EAST ORANGE, N.J., Nov. 2 -America, with all its technical

the Thomas Alva Edison Foundation both socially and economition to plan "Strengthening Sciently. ence Education for Youth and

whose growth during the last 20

PUPILS REWARDED

Dr. Herbert Scoville Jr., asknow-how, may yet have to borsistant director of the U.S. Centrow heavily from Russia's bag of trai Intelligence agency, at pedagogical tricks to produce the duction of the language training of th duction of trained brainpower to scientists and engineers this na three factors: control of the section urgently requires.

This was conceded today by ment by the state; rewards ofeducators, industrialists and government representative participating in an institute called by

three tactors: control of the secindary curriculum and enrollfered to youngsters preparing for
careers in science; and the vast
upgrading of the teaching profession both socially and economi-

Scoville said that Soviet education has been keyed to pro-Highlight of the conference duce scientists. Three-quarters of was the panel discussion of the all Russian youths graduate from the 10th grade. All are exposed early to the basic sciences with-

cream of the grow is funneled into the universities for an in tensive five-year course; others, less talented, are trained as technicians.

"These are graduated in amount depending on the course of study selected and on how badly spe cialists in a particular field may be e required. In the Unite States, we feel that all must be treated alike. Not only is tuition free in Russia but students re ceive a wage comparable to tha pald the average worker in in dustry.

60 PCT. TEACH

"Sixty per cent of university graduates go into teaching. Their traffing has been given the high est priority. Much honor and social prestige attach to the pro fession.

iession.

i junior professor receives
4,010 rubles a month or about
10 times the amount paid an indust al worker.

i e universities and the ped
agolical institutes offer degree
in ofth education and science
United the United States, where
a trained teacher may chance of
those to instruct in science choose to instruct in science often without sufficient back-ground, Russia demands a professional scientist who is as

signed to teach.
"Moreover, teachers are not allowed to stagnate. They are required to take a competitive examination every five years to demonstrate their proficiencyand to hold their jobs."

Participants in the panel discussion, who have studied the Soviet school system recently, reported that release from the straff acket of Stalinism has intradified a new note of informality in classrooms. For the first time students are encouraged to take nothing for granted, to raise questions, to argue with their instructors.

HALF ARE WOMEN

Argument was said to be assured by the fact that about one-

Approved For Release 2001/08/20 half of all miversity students are than one-turn one-turn one-turn of all medical chool graduates. The question was raised about

Dr. John Turkevich, research professor of chemistry at bunceton University, replied that they were "among the best in the world."

He said, "there is a text on chemistry which is superh ; would not think of lecturing to my class of 300 students without first reading the appropriate! chapter in that book.

"Russia is flooded with excellent, inexpensive texts. In this the country, publishers continually urge us to 'cut it down'; in Russia, text writers are requested to "Scholarships are given to all engage in exhaustive dissertations—and they are paid by the tions—and they are paid by the page."

'REBEL DANGEROUS'

Turkevich, born in the United States of Russian parents, held at the great advances in stience have come from "creative research" and that the political climate of Russia has not been conducive to such endeavors.

He asserted: "The creative man is a rebe! and it has been dengerous to be a rebel in Husa, until the recent downgradirg of Stalin. Now the story may

be different. The Soviet is strong in mathematics, which suffered least modification by Markian! dectrine. It is weakest in biology d biochemistry because of the rty line. It has shown some 'ses of genius in mathematical

ysics and has built the biggest, st and fastest electronic brain on the continent. It has one outstanding scientist in astrophysics.

"It is largely an imitator in nuclear power reactors but it will ve several in operation before the United States. Our six billion electron volt accelerator at

the California Institute of Technglogy, with its 9,000-ton magnet. will be dwarfed by the Sovict's billion volt machine with a 36,000-ton magnet—and they are planning another of 50 billion electron volts."